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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/051,494	01/18/2002	Matthias Passlack	SC11692ZP	1603
23330	7590 04/07/2003			
MOTOROLA, INC. CORPORATE LAW DEPARTMENT - #56-238 3102 NORTH 56TH STREET			EXAMINER	
			FOURSON III, GEORGE R	
PHOENIX, A	Z 85018		ART UNIT	PAPER NUMBER
			2823	· · ·
			DATE MAILED: 04/07/2003	\

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
	10/051,494	PASSLACK ET AL.
Office Action Summary	Examiner	Art Unit
	George Fourson	2823
Th MAILING DATE of this communication app Period for Reply	ars on the cover she t	with the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may within the statutory minimum of t rill apply and will expire SIX (6) M cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).
1) Responsive to communication(s) filed on 24 J	<u>anuary 2003</u> .	
2a) ☐ This action is FINAL . 2b) ☑ Thi	is action is non-final.	
3) Since this application is in condition for allowal closed in accordance with the practice under Disposition of Claims		
4) \boxtimes Claim(s) <u>9-24</u> is/are pending in the application		
4a) Of the above claim(s) is/are withdraw	vn from consideration.	
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>9-24</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/or	r election requirement.	
Application Papers		
9) The specification is objected to by the Examiner		
10) The drawing(s) filed on is/are: a) accep		
Applicant may not request that any objection to the 11) The proposed drawing correction filed on	- ' '	
		disapproved by the Examiner.
If approved, corrected drawings are required in rep 12) The oath or declaration is objected to by the Exa	•	
Priority under 35 U.S.C. §§ 119 and 120	arrillor.	
13) Acknowledgment is made of a claim for foreign	nriority under 25 U.S.C	\$ 110(a) (d) or (f)
a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 O.S.C	. § 119(a)-(u) of (i).
1.☐ Certified copies of the priority documents	s have been received	
2. Certified copies of the priority documents		Application No
3. Copies of the certified copies of the prior		· · ·
application from the International Bur * See the attached detailed Office action for a list of	reau (PCT Rule 17.2(a)).
14) Acknowledgment is made of a claim for domestic	c priority under 35 U.S.	C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domesti		
Attachment(s)	-	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice	w Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)

Application/Control Number: 10/051,494

Art Unit: 2823

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 9,10,11,14,15,18,19,20,21 and 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Hong et al.

Hong et al discloses a partially completed MOS device on a GaAs substrate having a gate oxide comprising a first layer consisting essentially of gallium oxide and a second layer of gallium-gadolinium oxide (col.2, lines 56-67) by e-beam evaporating Ga and Gd sources in the presence of oxygen (col.5, lines 22-30 and col.6, lines 28-30). The reference discloses limiting exposure to oxygen prior to the first layer deposition (col.7, lines 54-60). The process could be incorporated into a process of forming the devices of claims 21 and 22.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 12,13,16,17,23 and 24 rejected under 35 U.S.C. 103(a) as being unpatentable over Hong et al as applied to claims 9,10,11,14,15,18,19,20,21 and 22 above, and further in view of the following comments.

In view of the disclosure that an atomically clean surface is desired and oxygen exposure is limited until the first layer of gate oxide is formed it would have been within the scope of one of ordinary skill in the art to determine a suitable amount of oxygen to add to the process at the beginning of the process with the expectation that provision of oxygen would result in an atomically unclean surface and the disclosed concomitant disadvantages. The examiner takes official notice that provision of oxygen by evaporation in evaporation processes was known prior to applicant's invention. It would have been within the scope of one of ordinary skill in the art to combine the known process with that of Hong et al to enable the disclosed oxygen provision step.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group Receptionist whose telephone number is (703) 308-0956. See MPEP 203.08.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner George Fourson whose telephone number is (703) 308-2544. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri, can be reached on (703) 306-2794. The fax number for this group is (703)308-7722 (or extensions 7724, 3431 or 3432) for regular communications and (703)308-7382 for after final communications.

Primary Examiner
Art Unit 2823

GFourson April 6, 2003